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(54) **Method and device for controlling tissue coagulation using a high-frequency current.**

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CLAIM 1 :

Method for controlling the tissue coagulation of a patient using a high-frequency current supplied by a generator where either one of its poles is connected to a fine electrode, called an active electrode, applied to the tissue to be coagulated in the patient's operating area and the other to a large surface area electrode, called indifferent electrode, in contact with the patient outside the operating area or where the two poles are connected to two fine electrodes applied to the tissue to be coagulated in the patient's operating area, characterized by the fact that a very low intensity, calibrated control current, clearly identifiable with respect to the coagulation current, is superimposed over the high-frequency current, and the variation in the intensity of this control current is measured in order to trigger stopping coagulation as soon as the intensity of the control current, which is a function of the resistance of the tissue being coagulated, reaches a pre-set lower threshold value.